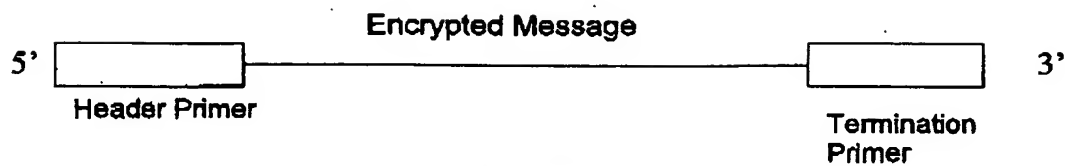
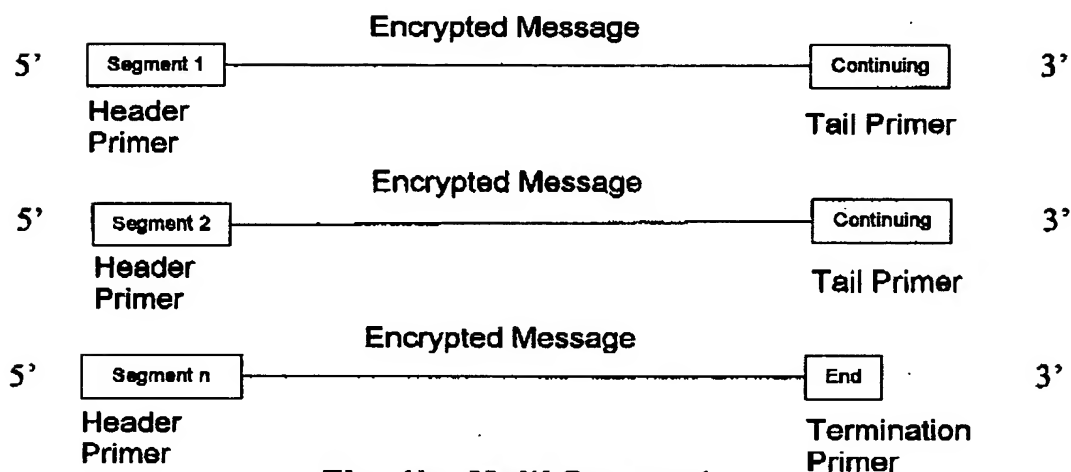
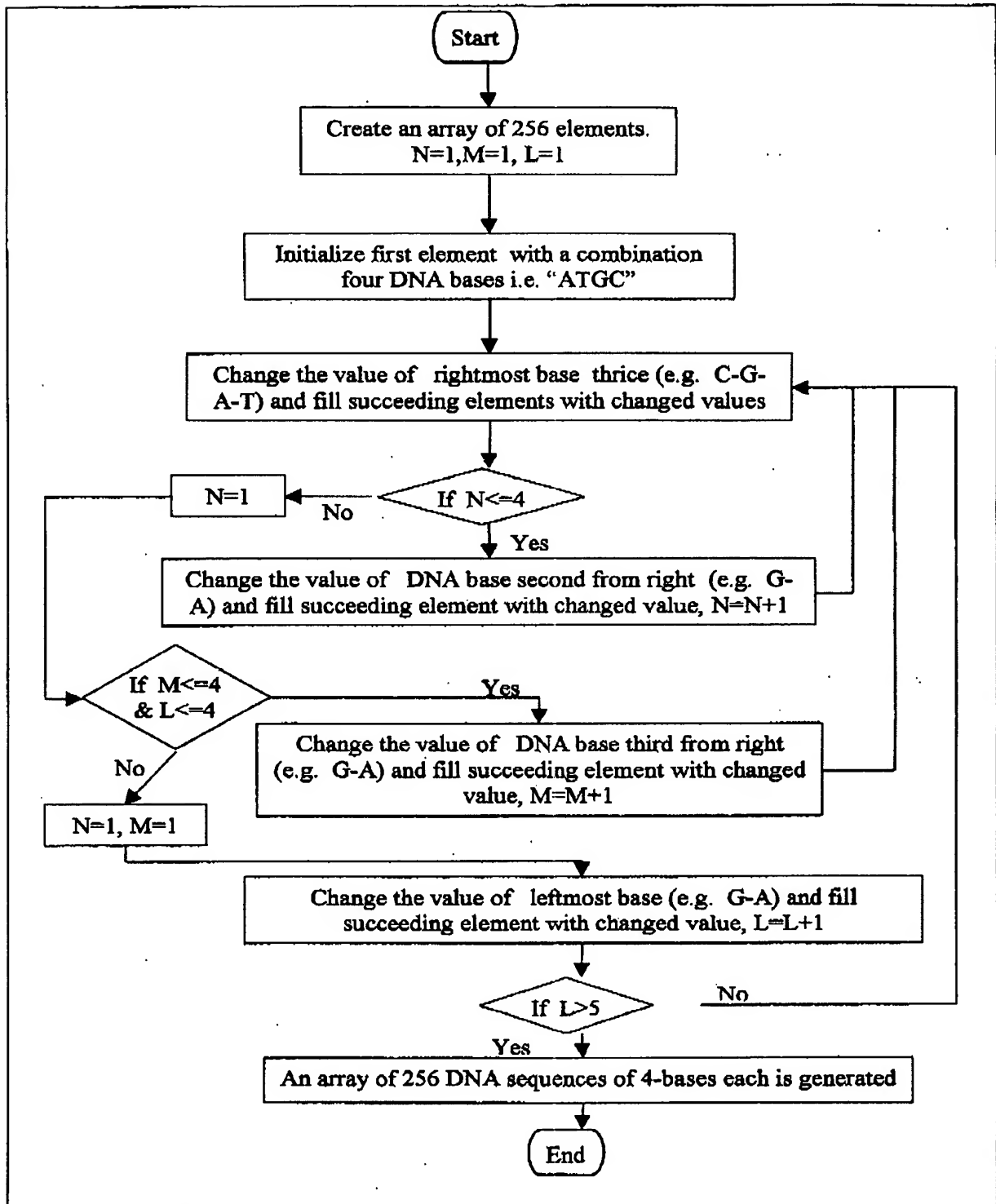


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**Fig. 1a. Single Segment****Fig. 1b. Multi Segment**

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Fig. 2. Encryption of extended ASCII character set in terms of DNA bases

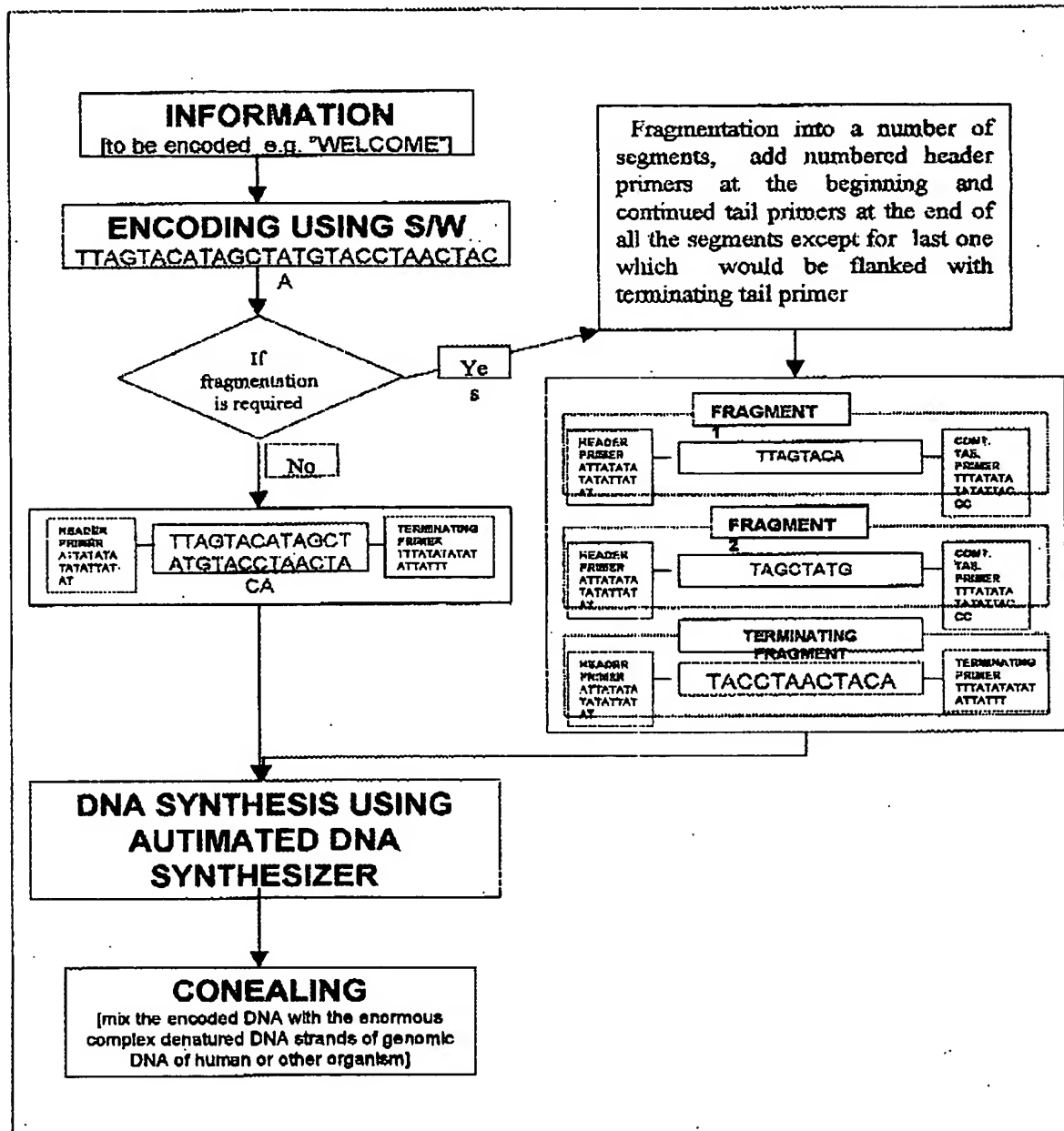
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Fig 3. Encryption Key. ASCII characters in terms of DNA strands

Dec	A S C II	DNA CODE	Dec	A S C II	DNA CODE	Dec	A S C II	DNA CODE	Dec	A S C II	DNA CODE	Dec	A S C II	DNA CODE	Dec	A S C II	DNA CODE
0		ATCG	44		AGGA	88	X	TTAA	132	n	CGTA	176	°	CCCA	220	Ü	GGGT
1	□	ATGC	45	-	AGAA	89	Y	TTTA	133	..	CGCA	177	±	CCGA	221	Ÿ	GGAT
2	□	ATAG	46	.	AGTA	90	Z	TTCA	134	†	CGGA	178	²	CCAA	222	b	GGTT
3	□	ATTG	47	/	AGCA	91	[	TTGA	135	‡	CGAA	179	³	CCTA	223	B	GGCT
4	□	ATTA	48	0	AACA	92	\	TTGT	136	^	CGAT	180	´	CCTT	224	à	GACT
5	□	ATCA	49	1	AAGA	93	|	TTAT	137	µ	CGTT	181	µ	CCCT	225	á	GAGT
6	□	ATGA	50	2	AAAA	94	^	TTTT	138	§	CGCT	182	¶	CCGT	226	â	GAAT
7		ATAA	51	3	AATA	95	_	TTCT	139	ˆ	CGGT	183	·	CCAT	227	ã	GATT
8	□	ATAT	52	4	AATT	96	`	TCCT	140	ç	CGGC	184	¸	CCAC	228	ä	GATC
9		ATTT	53	5	AACT	97	a	TCGT	141	0	CGAC	185	¹	CCTC	229	å	GACC
10		ATCT	54	6	AAGT	98	b	TCAT	142	1	CGTC	186	º	CCCC	230	æ	GAGC
11		ATGT	55	7	AAAT	99	c	TCIT	143	2	CGCC	187	»	CCGC	231	ç	GAAC
12		ATGC	56	8	AAAC	100	d	TCTC	144	3	CACC	188	¼	CCGG	232	à	CAAG
13		ATAC	57	9	AATC	101	e	TCCC	145	4	CAGC	189	½	CCAG	233	á	GATG
14		ATTC	58	:	AACC	102	f	TGCG	146	5	CAAC	190	¾	CCTG	234	â	GACG
15	□	ATCC	59	;	AAGC	103	g	TCAC	147	6	CATC	191	¸	CCCG	235	ä	GAGG
16	□	ACCC	60	<	AAGG	104	h	TCAG	148	7	CATG	192	9	GCCG	236	å	GAGA
17	□	ACGC	61	=	AAAG	105	i	TCTG	149	8	CACG	193	A	GCGG	237	f	GAAA
18	□	ACAC	62	>	AATG	106	j	TCCG	150	-	CAGG	194	A	GCAG	238	g	GATA
19	□	ACTC	63	?	AACG	107	k	TCCG	151	-	CAAG	195	A	GCTG	239	h	GACA
20	□	ACTG	64	@	TACG	108	l	TCCA	152	0	CAAA	196	A	GCTA	240	i	GTCA
21	□	ACCG	65	A	TAGG	109	m	TCAA	153	1	CATA	197	A	GCCA	241	j	GTCA
22	□	ACGG	66	B	TAAG	110	n	TCTA	154	2	CACA	198	A	GCCA	242	k	GTAA
23	□	ACAG	67	C	TATG	111	o	TCCA	155	3	CAGA	199	C	GCAA	243	l	GTAA
24	□	ACAA	68	D	TATA	112	p	TGCA	156	œ	CAGT	200	E	GCAT	244	m	GTTT
25	□	ACTA	69	E	TACA	113	q	TGGA	157	□	CAAT	201	E	GCTT	245	n	GTCT
26	□	ACCA	70	F	TAGA	114	r	TGAA	158	□	CATT	202	E	GCCT	246	o	GTGT
27	□	ACGA	71	G	TAAA	115	s	TGTA	159	Y	CACT	203	E	GCGT	247	p	GTAT
28	□	ACGT	72	H	TAAT	116	t	TGTT	160	1	CTCT	204	I	GCGC	248	q	GTAC
29	□	ACAT	73	I	TATT	117	u	TGCT	161	j	CTGT	205	I	GCAC	249	r	GTTC
30	-	ACTT	74	J	TACT	118	v	TGCT	162	e	CTAT	206	I	GCTC	250	s	GTCC
31		ACCT	75	K	TAGT	119	w	TGAT	163	E	CTTT	207	Y	GCCC	251	t	GTGC
32		AGCT	76	L	TAGC	120	x	TGAC	164	□	CTTC	208	D	GGCC	252	u	GTGG
33	!	AGGT	77	M	TAAC	121	y	TGTC	165	¥	CTCC	209	N	GGGC	253	v	GTAG
34	"	AGAT	78	N	TATC	122	z	TGCC	166	j	CTGC	210	O	GGAC	254	w	GTTG
35	#	AGTT	79	O	TACC	123	[	TGGC	167	§	CTAC	211	O	GGTC	255	x	GTCG
36	\$	AGTC	80	P	TTCC	124	|	TGGG	168	-	CTAG	212	O	GGTG			
37	%	AGCC	81	Q	TTGC	125	)	TGAG	169	©	CTTG	213	O	GGCG			
38	&	AGGC	82	R	TTAC	126	~	TGTG	170	°	CTCG	214	O	GGGG			
39	'	AGAC	83	S	TTTC	127	□	TGCC	171	ˆ	CTGG	215	x	GGAG			
40	(	AGAG	84	T	TTTG	128	□	CGCG	172	-	CTGA	216	Ø	GGAA			
41	)	AGTG	85	U	TTGG	129	□	CGGC	173	-	CTAA	217	U	GGTA			
42	*	AGCG	86	V	TTGG	130	z	CGAG	174	©	CTTA	218	U	GGCA			
43	+	ACCG	87	W	TTAG	131	f	CGTG	175	□	CTCA	219	U	GGGA			

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Fig.4. Process sheet for encryption & storage



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Fig.5. Process summary